

Bridge Culvert Inspection				
Bridge File Number	01334 -1 Bridge Culvert		Form Type	CULM
Year Built	1959		Lot No.	4
Bridge or Town Name	PINCHER CREE		Inspector Name	Jon Davies
Located Over	TRIBUTARY TO PINCHER CREEK, 2.12.31.1, WATERCRS-ST		Inspector Class	BR CLS B
Located On	6:04 C1 47.145		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	30-Oct-2011
Legal Land Location	SW SEC 35 TWP 6 RGE 30 W4M		Data Entry By	Alyssa Boynton
Longitude, Latitude	-113:56:53, 49:30:36		Data Entry Date	28-Nov-2011
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Garry Roberts
Contract Main. Area	CMA26		Review Date	10-Nov-2011
Clear Roadway/Skew	11.2 /		Dept. Reviewer Name	Tim Davies
AADT/Year	4,600 / 2010 (A)		Dept. Review Date	01-Dec-2011
Road Classification	RAU-211.8-110		Follow-Up By	
Detour Length (km)	3			

**Bridge Culvert Information**

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	5430	1830	BP	17.1			RECTANGLE
Special Features								
Special Features Comment								

**Utilities (Located at)**

Utility Attachments							
Telephone	West ditch.			Gas			
Power	1 wire crosses road 80m South.			Municipal			
Others				Problem (Y/N)	No		
Remarks							

**Approach Road / Embankment**

		Last	Now	Explanation of Condition
Horizontal Alignment		8	8	Field entrances to NW and NE. In slight sag curve.
Vertical Alignment		7	7	
Roadway Width (m)	10.000			
Embankment		7	7	
Sideslope ( __:1)	3.0			
(Height of Cover(m) : 1.2)				
Guardrail (Y/N)	Yes			
<b>Approach Road / Embankment General Rating</b>		<b>7</b>	<b>7</b>	

**Upstream End**

Culvert Component		Last	Now	Explanation of Condition
Direction		W		West end
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		6	6	Vertical cracks, stains.
Collar		X	X	
Wingwalls		7	6	Diagonal cracks, minor leaching-1mm wide. 40mm of heave of inlet slab at cells.
(Shape : )				
Cutoff Wall		N	6	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		6	6	
(Type : )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		6	6	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>6</b>	<b>6</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1810, Rise (mm): 1830, Type: BP, Cell Sequence: 1)</b>				
Barrel Last Accessible Date	30-Oct-2011			North cell.
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		7	7	
Measured Rise (mm)	1830			
Measured At Ring No.	1			
Sag (mm)	0			
Percent Sag	0			
Sidewall		7	7	
Measured Span (mm)	1810			
Measured At Ring No.	1			
Deflection (mm)	0			
Percent Deflection	0			
Floor		N	N	300mm silt and water.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	Yes			
Circumferential Seams		7	6	
Separation (mm)	20			
Longitudinal Seams		X	X	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		X	X	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1810, Rise (mm): 1830, Type: BP, Cell Sequence: 1)</b>				
Fish Passage Adequacy		5	5	
Baffle		X	X	
(Type : )				
Waterway Adequacy		6	6	300mm of silt on the floor
Icing (Y/N)		No		
Siltting (Y/N)		Yes		
Drift (Y/N)		No		
<b>Barrel General Rating</b>		<b>7</b>	<b>7</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1810, Rise (mm): 1830, Type: BP, Cell Sequence: 2)</b>				
Barrel Last Accessible Date		30-Oct-2011		
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		6	6	Leaching in center of roof @ narrow crack.
Measured Rise (mm)		1830		
Measured At Ring No.		1		
Sag (mm)		0		
Percent Sag		0		
Sidewall		6	6	Narrow vertical cracks at sidewall throughout.
Measured Span (mm)		1830		
Measured At Ring No.		1		
Deflection (mm)		0		
Percent Deflection		0		
Floor		N	5	
Bulge (mm)		0		
Measured At Ring No.				
Abrasion (Y/N)		No		
Circumferential Seams		7	6	
Separation (mm)		30		
Longitudinal Seams		X	X	
Total No. of Cracked Rings		0		
Total No. of Rings with Two Cracked Seams		0		
Min. Remaining Steel Between Cracks (mm)		0		
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		X	X	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG		ZERO		
Ponding (Y/N)		No		

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1810, Rise (mm): 1830, Type: BP, Cell Sequence: 2)				
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type : )				
Waterway Adequacy		6	6	
Icing (Y/N)		No		
Siltng (Y/N)		No		
Drift (Y/N)		No		
Barrel General Rating		6	6	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1810, Rise (mm): 1830, Type: BP, Cell Sequence: 3)				
Barrel Last Accessible Date		30-Oct-2011		
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		7	7	
Measured Rise (mm)		1830		
Measured At Ring No.		1		
Sag (mm)		0		
Percent Sag		0		
Sidewall		7	7	
Measured Span (mm)		1810		
Measured At Ring No.		1		
Deflection (mm)		0		
Percent Deflection		0		
Floor		N	5	
Bulge (mm)		0		
Measured At Ring No.				
Abrasion (Y/N)		No		
Circumferential Seams		7	6	
Separation (mm)		30		
Longitudinal Seams		X	X	
Total No. of Cracked Rings		0		
Total No. of Rings with Two Cracked Seams		0		
Min. Remaining Steel Between Cracks (mm)		0		
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		X	X	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG		ZERO		
Ponding (Y/N)		No		

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1810, Rise (mm): 1830, Type: BP, Cell Sequence: 3)				
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type : )				
Waterway Adequacy		6	6	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>7</b>	<b>7</b>	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		East end
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	7	
Collar		X	X	
Wingwalls		6	6	Vertical cracks, stains.
(Shape : )				
Cutoff Wall		N	N	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		7	7	
(Type : )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>6</b>	<b>6</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel (U/S and D/S)</b>				
Alignment		5	5	90 degree bend @ D/S.
Bank Stability		6	5	D/S channel undercut.
HWM (m below Top of Culvert)				((Ran over road 1986 - 940113).)
Drift (Y/N)	No			No visible HWM.
Channel Bottom Degrading/Aggrading	AGGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>5</b>	<b>5</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL CONCRETE/STEEL LINING							
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTOFF							
REPAIR SEAMS							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>66.7/66.7</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>62.0/62.0</b>	Est. Repl. Yr	2030	Maint. Req. (Y/N)	No
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	30-Jul-2013		Previous Inspection Date	22-Oct-2009			
Inspection Cycle (Default) (months)	21						
Comment							